PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference F-1148			FOR FURTHER ACTION		See Form PCT/IPEA/416						
International application No.			International filing da	ate (day/month/year)	Priority date (day/month/year)						
PCT/JP2004/007515			01.06.200	4	09.06.2003						
International Patent Classification (IPC) or national classification and IPC											
Applicar	nt										
JSR	CORPORATI	ION									
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.										
2.	This REPORT cons	sists of a total of	5	sheets, includir	ng this cover sheet.						
3.	This report is also a	ccompanied by A	NNEXES, comprising:								
	a. (sent to	the applicant and	to the International Bi	uragu) a total of 2	-b						
					sheets, as follows: amended and are the basis for this report and/or						
	∠ she				ule 70.16 and Section 607 of the Administrative						
					nsiders contain an amendment that goes beyond						
	the Bo	e disclosure in the	e international applicat	tion as filed, as indicated	d in item 4 of Box No. I and the Supplemental						
	b (sent to	the International	Bureau only) a total of	(indicate type and numb	er of electronic carrier(s))						
	, containing a sequence listing and/or tables										
			r readable form only, a trative Instructions).	as indicated in the Suppl	emental Box Relating to Sequence Listing (see						
4.	. This report contains indications relating to the following items:										
	Box No. I	Basis of the	report								
	Box No. II	Priority									
	Box No. III	Non-establi	shment of opinion with	n regard to novelty, inven	tive step and industrial applicability						
	Box No. IV	Lack of uni	ty of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
	Box No. VI	Certain doc	uments cited								
	Box No. VII Certain defects in the international application										
	Box No. VIII Certain observations on the international application										
Date of s	nic report										
				Date of completion of the	ns topoli						
Name on	d mailing address of	the IDEA/ID		A							
Name and mailing address of the IPEA/JP				Authorized officer							
(Za ani mai)	- NT-			100 1 1 57							

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/007515

Вох	No. I	Basis of the report						
1.		n regard to the language, this report is based on the internation cated under this item.	nal application in the language in which it was filed, unless otherwise					
This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:								
		international search (Rule 12.3 and 23.1(b))						
		publication of the international application (Rule 12.4)						
		international preliminary examination (Rule 55.2 and/o						
2.	recei		report is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to the referred to in this report as "originally filed" and are not annexed to the referred to th					
		the international application as originally filed/furnished						
	\boxtimes	the description:						
		pages 1-43	as originally filed/furnished	į				
		pages*	received by this Authority on					
		pages*	received by this Authority on					
	\boxtimes	the claims:						
		nos. <u>2-10</u>	as originally filed/furnished	Į				
		nos.*	as amended (together with any statement) under Article 19	ı				
		nos.* 1	received by this Authority on 07.04.2005					
		поз.*	received by this Authority on					
	\boxtimes	the drawings:						
		sheets _fig. 1-18	as originally filed/furnished	l				
		sheets*	received by this Authority on					
		sheets*	received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos.	the claims, nos.					
		the drawings, sheets/figs	the drawings, sheets/figs					
		the sequence listing (specify):	the sequence listing (specify):					
		any table(s) related to sequence listing (specify):						
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil	ments annexed to this report and listed below had not been made, sind ed, as indicated in the Supplemental Box (Rule 70.2(c)).	:e				
		the description, pages						
		the claims, nos.	the claims, nos.					
		the drawings, sheets/figs	the drawings, sheets/figs					
		the sequence listing (specify):	the sequence listing (specify):					
		any table(s) related to sequence listing (specify):						
*	If ite	m 4 applies, some or all of those sheets may be marked "supe	erseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/007515

Box No. V Reasoned statement under A i citations and explanations suj			ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement			
	Novelty (N)	Claims	1-10	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-10	_ NO
	Industrial applicability (IA)	Claims	1-10	_ YES
		Claims		_ NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 2002-246428 A (JSR Corp.), 30 August 2002, entire text, all drawings & WO 2002/047149

A1

Document 2: JP 2003-077962 A (JSR Corp.), 14 March 2003, paragraphs [0039] to [0041] and [0077], and fig. 15 to 19 (Family: none)

The inventions set forth in claims 1 to 10 do not involve an inventive step in the light of documents 1 to 2.

(1) Claims 1 to 3 and 8 to 10

Document 1 discloses inventions that are related to an anisotropic conductive connector for electrically connecting the various inspection electrodes and the various terminal electrodes, which is disposed between the inspecting circuit board and the connecting circuit board, wherein said anisotropic conductive connector is configured from an elastic anisotropic conduction film, which comprises a plurality of connecting conduction units that extend in the thickness direction at positions that are separated from one another along the surface direction and an insulation unit that is formed between

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the connecting conduction units, and an insulation sheet member, which supports the elastic anisotropic conduction film in question; the aforementioned insulation sheet material is configured from a material that has a linear thermal expansion coefficient of 3 X 10^{-6} to 3 X 10^{-5} K⁻¹; the connecting conduction units of the aforementioned elastic anisotropic conduction film are configured by densely filling magnetic conductive particles with a number average particle diameter of 30 to 150 μ m into an elastic polymer substance; said conductive particles have a coating layer of a noble metal with a thickness of 20 nm or more formed upon the surface thereof; said connecting conduction units have a durometer hardness of 15 to 45; and the electrical resistance between adjacent connecting conduction units is 10 M Ω or more.

Document 2 discloses an anisotropic conductive connector that is configured from an elastic anisotropic conduction film and a frame plate for supporting the elastic anisotropic conduction film, wherein said frame plate is configured from a metal material.

The anisotropic conductive connector that is disclosed in document 1 and the anisotropic conductive connector that is disclosed in document 2 are both related to a common issue, i.e. controlling the thermal expansion of the anisotropic conductive connector in order to stably maintain a favorable electrical connection state; therefore, it would have been easy for a person skilled in the art to conceive of substituting the frame plate that is configured from a metal material, which is disclosed in document 2, for the insulating sheet in the anisotropic conductive sheet that is disclosed in document 1.

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In addition, configuring so that the linear thermal expansion coefficient of the frame plate, the number average particle diameter of the conductive particles and the durometer hardness of the connecting conduction units are 3 \times 10⁻⁶ to 2 \times 10⁻⁵ K⁻¹, 20 to 80 μm and 10 to 35, respectively, is merely a design matter, and there cannot be found to be any significant action or effect that results from selecting the numerical ranges in question.

(2) Claims 4 to 7

Configuring so that the conditions for carrying out tests upon the anisotropic conductive sheet which are disclosed in claims 3 to 6 of document 1 conform to the numerical ranges that are set forth in claims 4 to 7 of the present application is merely a design matter. The conditions for carrying out tests upon the anisotropic conductive sheet should be set so as to match actual usage conditions, as appropriate, and there cannot be found to be any significant action or effect that results from selecting the numerical ranges that are set forth in claims 4 to 7 of the present application.